

# TFL-50 WET LUBRICANT

PENETRATION PRODUCT	Lubricant penetration rates (1)			
	% NON-VOLATILE	SPECIFIC GRAVITY	SURFACE TENSION (dynam/cm)	PENETRATION (min:sec)
VOC4584	30	0.81	24.1	2:10
TFL 50 WET	33	0.80	23.8	1:27, 1:37
BREAKFREE	65	0.96	25.8	20:00
CRC336	23	0.92	25.4	4:55
CRC556	19	0.82	24.9	6:00
LPS1	4	0.80	24.1	3:40
3 IN 1	73	0.85	26.2	20:00
WATER	0	1.00	61.0	1:35
WD40	25	0.82	25.0	3:07
TRIFLOW	58	0.92	23.2	20:00
STARRET M1	12	0.80	24.5	2:50

(1) US Pat. No. 4,596,137 relates to a method and apparatus for measuring the penetration of fluids, particularly for accurately measuring the penetration of liquids, such as liquid lubricants. The concepts of the invention were used to generate the test results in the above table.

## EFFECTS ON PLASTICS

Safe for use on most engineering plastics which are not highly stressed. Listed below are plastics tested with TFL 50 WET Lubricant.

Plastic Type	Non-Stressed	Stressed
ABS	OK	NR
Acetal	OK	OK
Acrylic	OK	OK
Nylon & Nylon 66	OK	OK
Nylon Transparent	OK	OK
Modified PPO	OK	NR
Polycarbonate	OK	OK
Polyester PET	OK	OK
Polyester PBT	OK	OK
Polystyrene	NR	NR
Polyvinyl Chloride	OK	NR

## PHYSICAL PROPERTIES

CONTAINER	Aerosol or Bulk
SHELF LIFE	Two Years
FLASH POINT	134-136F, BULK
DENSITY (15C)	0.823
VISCOSITY (100F)	2.57cSt

## LUBRICITY

### FOUR BALL WEAR TEST

(t=60 min., T = 130F, rpm = 1200, load = 20 Kgs)

Coefficient of Friction 0.061 \*

Wear Scar (mm) 0.484 \*

\* average value

### PATENT TESTING PROCEDURE 4,596,137

% Non-volatile	33
Specific Gravity	0.80
Surface Tension	23.8 dynes/cm
Penetration	1:27, 1:37 min./sec.

### SALT FOG CORROSION TEST

In the Salt Fog Test, a comparison of panels exposed to a corrosive 5% salt atmosphere at 95F for 72 Hrs. confirmed the excellent rust protection provided by TFL50 WET Lubricant.

OK = NO OBSERVABLE EFFECT

NR = NOT RECOMMENDED FOR USE ON PLASTICS